

Problem 17, Chemistry 301X-2006

- a. Draw the nine isomers of heptane, C_7H_{16} .
- b. Use arrows to show all the different carbons in each isomer.
- c. Draw a Newman projection looking down the central C—C bond on hexane. Make a Newman projection of the energy minimum form.
- d. Construct an “Energy vs. angle” diagram for hexane, as you rotate around that central C—C bond. Label all energy minima on your drawing with Newman projections.